

#### Kansas Corporation Commission Oil & Gas Conservation Division

#### 1054694

Form ACO-1

June 2009

Form Must Be Typed

Form must be Signed

All blanks must be Filled

# WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No. 15
Name:	Spot Description:
Address 1:	SecTwpS. R 🗌 East 🗌 West
Address 2:	Feet from North / South Line of Section
City:	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	County:
Name:	Lease Name: Well #:
Wellsite Geologist:	Field Name:
Purchaser:	Producing Formation:
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
New Well Re-Entry Workover	Total Depth: Plug Back Total Depth:
Oil WSW SWD SIOW Gas D&A ENHR SIGW OG GSW Temp. Abd.  CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.):	Amount of Surface Pipe Set and Cemented at: Feet  Multiple Stage Cementing Collar Used? Yes No  If yes, show depth set: Feet  If Alternate II completion, cement circulated from: sx cmt.
If Workover/Re-entry: Old Well Info as follows:	
Operator: Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:  Deepening Re-perf. Conv. to ENHR Conv. to SWD  Conv. to GSW	Chloride content: ppm Fluid volume: bbls  Dewatering method used:
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:  Dual Completion Permit #:  SWD Permit #:	Operator Name:
☐ ENHR         Permit #:           ☐ GSW         Permit #:	County: Permit #:
Spud Date or Date Reached TD Completion Date or Recompletion Date	

#### **AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

**Submitted Electronically** 

KCC Office Use ONLY
Letter of Confidentiality Received
Date:
Confidential Release Date:
Wireline Log Received
Geologist Report Received
UIC Distribution
ALT I III Approved by: Date:

Side Two



Operator Name:				_ Lease N	lame:			Well #:		
Sec Twp	S. R	East	West	County:						
INSTRUCTIONS: Sh time tool open and clo recovery, and flow rate line Logs surveyed. A	osed, flowing and shu es if gas to surface te	t-in pressures, st, along with f	whether sh inal chart(s	nut-in press	ure reach	ed static level,	hydrostatic pres	ssures, bottom h	ole temp	erature, fluid
Drill Stem Tests Taker (Attach Additional S		Yes	No		Log	y Formation	n (Top), Depth a	nd Datum		Sample
Samples Sent to Geo	logical Survey	Yes	No		Name			Тор	I	Datum
Cores Taken Electric Log Run Electric Log Submitte (If no, Submit Copy	d Electronically	Yes Yes Yes	☐ No ☐ No ☐ No							
List All E. Logs Run:										
		Report all	CASING I		New	Used mediate, producti	on, etc.			
Purpose of String	Size Hole Drilled	Size Ca Set (In C	sing	Weigi Lbs. /	ht	Setting Depth	Type of Cement	# Sacks Used	, ,,	and Percent dditives
		AI	DDITIONAL	CEMENTIN	G / SQUE	EZE RECORD				
Purpose:  Perforate Protect Casing Plug Back TD Plug Off Zone	Depth Top Bottom	Type of Co	ement	# Sacks	Used		Type and	Percent Additives		
Shots Per Foot	PERFORATI Specify I	ON RECORD - Footage of Each	Bridge Plugs Interval Perfo	s Set/Type orated			cture, Shot, Cemei mount and Kind of N		d 	Depth
TUBING RECORD:	Size:	Set At:		Packer At:		Liner Run:				
Date of First, Resumed	Production, SWD or EN		ducing Meth	od:		as Lift C	Yes No	0		
Estimated Production Per 24 Hours	Oil	Bbls.		Mcf	Water		ols.	Gas-Oil Ratio		Gravity
DISPOSITIO	ON OF GAS:		M	IETHOD OF	COMPLET	ION:		PRODUCTIO	ON INTER	VAL:
Vented Sold	Used on Lease	Open	Hole (Specify)	Perf.	Dually ( (Submit AC		nmingled mit ACO-4)			

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Pablo 4-30
Doc ID	1054694

# Tops

Name	Тор	Datum
Anhydrite	1392	749
Heebner	3617	-1476
Lansing	3662	-1521
ВКС	3981	-1840
Pawnee	4062	-1921
Ft. Scott	4143	-2002
Cherokee	4161	-2120
Mississippian	4226	-2085
TD	4250	-2109



CONTINUE TO:	
丁ででは、ことなって	
ADDRESS	
CITY, STATE, ZIP CODE	

11CKET 20546

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTYMANDISH	STATE CITY	DATE	OWNER
1. N. R. S. J. T. J. W. W.		TARIO 4-30 NESS	) NESS	XX   XAZINE	IF, KS 17 MAR	
<b>P</b>	TICKET TYPE CONTRACTOR		RIG NAME/NO.	SHIPPED DELIVERED TO	ÓRDER NO.	
3	BALES FIRE	DISMES TOTROMARY URILING		WA LOCATIO	ح	
\$	WELL TYPE		JOB PURPOSE	WELL PERMIT NO.	WELL LOCATION	
	7(0	TEVELDOMENT	878 SURFACE	*	18/40	/W fora
REFERRAL LOCATION	INVOICE INSTRUCTIONS	-				,

	DATE SIGNED	START OF WORK OR DELI	MUST BE SIGNED BY CUS	LIMITED WARRANTY provisions	the terms and condi	LEGAL TERMS: C	583	183	330	290	27%	221	281	410	404 1	104	5760	202	PRICE
	ME SIGNED // 95	START OF WORK OR DELIVERY OF GOODS	TOMER OR CUSTOMER'S AGENT PRIOR	DUI are not limited to, FAYMENT, RELEASE, INDEMNITY, and	the terms and conditions on the reverse side hereof which include	LEGAL TERMS: Customer hereby acknowledges and agrees to													SECONDARY REFERENCE/ PART NUMBER
		. ,	20		fwhich	s and a			/				_						_0C <b>\c</b>
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			_1_																무
700-730-2000		P.O. BOX 466	SWIFT SERVICES, INC.		REMIT FAYMENT TO:		DRAYAGE	SERVICE PHARGE PEMENT	SWIFT MULTI DEUSITY	D-AIR	FLOCELE	LIBUID KOL	MUD FLUSH	TOP PLUG	TURBOLIZERS	ENSERT FLOAT W/O AUTO FILL	Pump CHARGE	MILEAGE # 110	DESCRIPTION
CUSTO	RE YOU SATISFIED	E OPERATED THE EQUIPMENT ND PERFORMED JOB NLCHLATIONS	UR SERVICE WAS ERFORMED WITHOUT DELAY?	E UNDERSTOOD / ET YOUR NEEDS?	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	SURVEY	4												
CUSTOMER DID NOT WISH TO RESPOND	YOU SATISFIED WITH OUR SERVICE?	DB EQUIPMENT	OUT DELAY?	8	RFORMED WN?		42297 1165	٧.	42STSX	4 191	107/16	يها لا	14 CQS	l'ea.	4/64.	/  FA	/ 1888 1888	20 mil	QTY. UM
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					126101	. 97	4/22 97	0371sp	(0375 P	140 log	( <sub>0</sub> ())	86.05	80018	180 as	30018	81(15C	(101)	<u>8</u> C00	AMOUNT

SUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES

10	•	ING
JU	B	LOG

# SWIFT Services, Inc.



DATE TOMARII PAGE NO.

TIME   RATE   ROLLINES   PUMPS   PRESSURE PC   ROSING   DESCRIPTION OF OPERATION AND MATERIALS     1/630	CUSTOMER CANERY	CAH WAR	RIDR	WELL NO.		PABLO 4	-30 JOBTYPE 8 5/8 SURFACE TICKET NO. 20544
1830   START PIPE 85/8: 238   RTD @ 1400   SET @ 1399	CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)		PRESSURE (PSI)	
RIDE   400   SET E   399		1630					ONLOCATION
CENTRALIZERS 1,4,12,28     2050   CIRCULATE     2107   6   12   300   Pamp 500 gac Mud Flush     6   20   300   Pamp 20 Bhl KCL Flush     7   200   1005x@11.7pp6     6   47   200   125 Sx@12.5pp6     6   31   200   100 Sx@13.5pp6     6   31   200   100 Sx@14.5pp6     6   26   200   100 Sx@14.5pp6     7   200   100 Sx@14.5pp6     8   200   100 Sx@14.5pp6     100   200   100 Sx@14.5pp6     100   200   200   200   200   200     100   200   200   200   200     100   200   200   200   200     100   200   200   200   200     100   200   200     100   200   200     200   200   200     200   200   200     200   200   200     200		1830					STAR! DIPE 85/8-234
2107 6 12 300 Pamp 500 GAL MUD FLUSH  6 20 300 Pamp 500 GAL MUD FLUSH  2113 MANY CEMENT SMD  10 49 200 100 SX @ 11.7 Pp6.  10 31 200 100 SX @ 13.5 Pp6.  10 20 100 SX @ 14.5 Fp6.  10 20 100 SX @ 14.5 Fp6.  10 20 100 SX @ 14.5 Fp6.  2145 6 RELEASE PLUG START DISPLACEMENT  2204 8 89 LOO PLUG DOWN SHUT WELL IN  CIRCULATE 30 SX TO PIT		ļ					
2107 6 12 300 Pump 500 gar Mud Flus H  6 20 300 Pump 20 Bhl KCL Flus H  2113 mily Cement SMD  6 47 200 100 sx @ 11.7 pp6.  6 48 200 125 sx @ 12.5 pp6.  6 31 200 100 sx @ 13.5 pp6.  6 20 100 sx @ 14.5 pp6.  7 200 100 sx @ 14.5 pp6.  7 200 100 sx @ 14.5 pp6.  1 200 100 sx @ 14.5 pp6.  2145 6 Recease Plub START DISPLACEMENT  2204 8 89 LOO Plub Down SHUT WELL IN  1 CIRCULATE 30 sx TO PIT  1 WASH TRUCK  2245 SB Complete	·						CENTRALIZERS 1,4,12,28
2107 6 12 300 Pump 500 gar Mud Flus H  6 20 300 Pump 20 Bhl KCL Flus H  2113 mily Cement Smd  6 47 200 100 sx @ 11.7 pp.6.  6 48 200 125 sx @ 12.5 pp.6.  6 31 200 100 sx @ 13.5 pp.6.  6 20 100 sx @ 14.5 pp.6.  7145 6 RELEASE PLUG START DISPLACEMENT  2204 8 89 LOO PLUG DOWN SHUT WELL IN  6 CIRCULATE 30 sx TO PIT  1 WASH TRUCK  2245 SB Complete							
20 \ 300   Pump 20 Bh KCL FlusH  21/3   MIX CEMENT SMD  Lo 47 \ 200   1005x@11.7ppb.  Lo 48 \ 200   1255x@12.5ppb.  Lo 31 \ 200   100 5x@13.5ppb.  Lo 26 \ 200   100 5x@14.5ppb.  2145   WASH OUT PUMPING LINES.  2145   WASH OUT PLUG DOWN SHUT WELL IN  CIRCULATE 305x To PIT  LIASH TRUCK  2245   JOB Complete		2050					CIRCULATE
20 \ 300   Pump 20 Bh KCL FlusH  21/3   MIX CEMENT SMD  Lo 47 \ 200   1005x@11.7ppb.  Lo 48 \ 200   1255x@12.5ppb.  Lo 31 \ 200   100 5x@13.5ppb.  Lo 26 \ 200   100 5x@14.5ppb.  2145   WASH OUT PUMPING LINES.  2145   WASH OUT PLUG DOWN SHUT WELL IN  CIRCULATE 305x To PIT  LIASH TRUCK  2245   JOB Complete		A 10 PZ	,	12		200	P CON M O Second
2113    MIX CEMENT SMD   Lo 47   200 100sx@11.7pp6.     Lo 48   200 125 sx@12.5pp6.     Lo 31   200 100 sx@13.5pp6.     Lo 26   200 100 sx@14.5pp6.     U)ASH OUT PUMPING LINES.     2145   Lo   RELEASE PLUG START DISPLACEMENT     2204   8   89   LOO PLUG DOWN SHUT WELL IN     CIRCULATE 30sx To PIT     LASH TRUCK     2245   JOB COMPLETE		2107				300	Pump SOOGAC MUDPLUSH
L 47			<u> ي</u>	70		300	Tamp 20 BB NCL PEUSIT
L 47		2/13					May Come IT SMAD
200 125 Sx @ 12.5 Ppc.  10 31		X113	1.	47	7	262	
100 31   200 100 SX @ 13.5 Pp6.   200 100 SX @ 14.5 pg6.   200 100 SX @ 14.5 pg6.   200 100 SX @ 14.5 pg6.   2145   200   200   2145   200   2145   200   2145   200   2145   200   2145   200   2145   214	·					ľ	
Le 26 200 100 SX @ 14,5 ggs.  U)ASH OUT PUMPING LINES.  2145 LO RELEASE PLUG START DISPLACEMENT  2204 & 89 LOW PLUG DOWN SHUT WELL IN CIRCULATE 30 SX TO PIT  WASH TRUCK  2245 JOB COMPLETE			1		<del></del>		
2145 LO RELEASE PLUG START DISPLACEMENT  2204 & 89  LOW PLUG DOWN SHUT WELL IN  CIRCULATE 30sx To FIT  WASH TRUCK  THANKS & 110					7		
2145 LO RELEASE PLUL START DISPLACEMENT  2204 & 89  LOO PLUG DOWN SHUT WELL IN  CIRCULATE 30sx TO PIT  WASH TRUCK  THANKS #110							
2145 LO RELEASE PLUL START DISPLACEMENT  2204 & 89  LOO PLUG DOWN SHUT WELL IN  CIRCULATE 30sx TO PIT  WASH TRUCK  THANKS #110		1		·			WASH OUT PUMPING LINES.
2245  2304 & 89  600 PLUG DOWN SHUT WELL IN CIRCULATE 3DSX TO PIT  WASH TRUCK  THANKS 18110							
CIRCULATE 30 SX TO PIT  WASH TRUCK  2245  THANKS # 110		2145	6		7		RELEASE PLUG START DISPLACEMENT
CIRCULATE 30 SX TO PIT  WASH TRUCK  2245  THANKS # 110	· .						
2245 JOB MOMPLETE THANKS HILD	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	2204	X	89		600	PLUG DOWN SHUT WELL IN
2245 SOB COMPLETE  THANKS HILLD		ļ					CIRCULATE 30SX TO PIT
2245 SOB COMPLETE THANKS HILLD				-			
THANKS HID		<u> </u>					Wash Truck
THANKS HID							
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ADDRESS	CHARGE TO:
	American
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TICKET 20552

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTYPARISH	STATE  CITY	DATE OWNER	
1 Mary 6	4-30	72010	ness	KS Barixa	24 MAR	
2	TICKET TYPE CONTRACTOR		RIG NAME/NO.	SHIPPED DELIVERED TO	ORDER NO.	
	SALES	Potrosork		Met 18stice		٠
9	WELL TYPE	WELL CATEGORY JOB	JOB PURPOSE	WELL PERMIT NO.	WELL LOCATION	
	0	Development of	Coment lan stone		30-185-218	ŕ
REFERRAL LOCATION	INVOICE INSTRUCTIONS		2 ,			1

MENT TO:  OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?  WE UNDERSTOOD AND MET YOUR NEEDS?  OUR SERVICE WAS: PERFORMED WITHOUT DELAY? WE OPERATORILLY AND PERFORMED JOB CALCULATIONS SATISFACTORILLY AND PERFORMED WITHOUT DELAY?  WE OPERATORILLY AND PERFORMED JOB CALCULATIONS SATISFACTORILLY AND PERFORMED WITHOUT DELAY?  WE OPERATORILLY AND PERFORMED JOB CALCULATIONS SATISFACTORILLY AGREE DUN DECIDED AGREE DECI	Agrees to chindude, INITY, and SWIFT SERVICES, INC.  P.O. BOX 466  NESS CITY KS 67560	MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WOOD OR DELIVERY OF GOODS
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? WE UNDERSTOOD AND MET YOUR NEEDS? OUR SERVICE WAS PERFORMED WITHOUT DELAY?	<u>. <b>I</b> </u>	CHARGO AGENT PRIOR TO
SURVEY AGREE OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?		LIMITED WARRANTY provisions.
SURVEY AGREE	<del></del> -	the terms and conditions on the reverse side hereof which include,
		LEGAL TERMS: Customer hereby acknowledges and agrees to
A. A	Solo to tue	+
5-10+ Shoc 52 4	1856ET 5-104	
play beffle. 5'z in	LATICH DOWN play & baffle	1
54 1	Cornert Basket	
52   4	Contractor	
100	Pono Chane	
114 20 14.	MILEAGE TRK 114	
DESCRIPTION QTY.   UM QTY.	ACCT DF	PART NUMBER LOC

SWIFT OPERATOR

ACCEPTANCE OF MATERIALS AND SERVICES Tile

D D P R E R

785-798-2300

CUSTOMER DID NOT WISH TO RESPOND

TOTAL

JOB L	· · · · · · · · · · · · · · · · · · ·			0		SWIFT	Serv	ices, Inc.
CUSTOMER	Con Wal	T.Or	WELL NO.	30		LEASE Pa	do	Coment long string TICKET NO. 20552
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMF	P8 C	PRESSUR TUBING		DESCRIPTION OF OPERATION AND MATERIALS
								175 5ks EA-2 101 just
								72 /55 4
								Cart 1,2,34,80 Prists 5
		-						LTD 4050 TOTALPIRE "16501" Seen at 42.
	200							on loc Tex 114
		<u> </u>						
	0130							START 52" 55.5" cosing in well
	0320							Droptall circulate - ROTATE
								circulate pipe down
	0435							Pump 12 bbl MUDFLUSH
4		*						
		i.						Pump 20 Hol KCL plant
<del></del>								
	0440		1					Plug RH (30 skg)
	0445	434		·			250	MIX 1455KS_ EX-Z @ 15.3 PR
	0500						ļ	Wash out Pup & lines
	4.00	13.						Wash out Trup & lines
	0103	64	00				<b>—</b>	Displace plug
	2.52	624	92				850	LAND plug
	0520		100				1520	ZARD PILOT
								wosh truck
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# TICKET CONTINUATION

		581	187								390	221	281	276	292	283	284	325	
	TOTAL WEIGHT LOADED MILES	SERVICE CHARGE	Deagard (m. m)								D-4R"	KCL Piaud	mudflish	flocele.	halad - 322	Salt		STANDARD COME + (FOTFA-2)	
	TON MILES	CUBIC FEET	10								Con	2 61	100 (0X)	50 /6	125 6	900116	8	175 54	
		<u>/</u> 8	25010							**	8/8	250	100	aa/	78	015	3000	12 00	
30		262 50	250 00		-						20 8	50 8	50068	8	937 50	135/00	24000	2100 00	



ADDRESS	CHARGE IO:
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TICKET 20556

SERVICE LOCATIONS CAL US	WELL/PROJECT NO. 4.30	LEASE 75/5/6	COUNTYPARISH	STATE	CITY BAYY	DATE OWNER
	7.50	10010	neso	スページ	DASIME	1 24 m 62
2.	TICKET TYPE CONTRACTOR		RIG NAME/NO.	SHIPPED	SHIPPED DELIVERED TO	ORDER NO.
3	D SALES	•		ار م	/xx+ixx	
•	WELL TYPE	WELL CATEGORY	JOB PURPOSE		WELL PERMIT NO.	WELL LOCATION
	0,1	Level BOMMET 1	KOMMET Coment annohus	z :		30-185-214
REFERRAL LOCATION	INVOICE INSTRUCTIONS	•				

	DATE SIGNED	START OF WORK OR DELIVERY OF GOODS	MUST BE SIGNED BY CUS	LIMITED WARRANTY provisions	the terms and cond	LEGAL TERMS: (			***		582	581	200	276	330	577	575	PRICE
	TIME SIGNED	IVERY OF GOODS	MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO	but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.	the terms and conditions on the reverse side hereof which include	LEGAL TERMS: Customer hereby acknowledges and agrees to	111111111111111111111111111111111111111											SECONDARY REFERENCE/ PART NUMBER
35			Ā O		of which	s and a										-	ŧ.	- Γος <b>Λ</b>
	j ŽŽ			ITY, and	include	agrees to												ACCOUNTING ACCT
1						-												무
- 00 E000	1 >	P.O. BOX 466  NESS CITY, KS 67560  SATISFA	SWIFT SERVICES, INC.	3 Z S	REVIEW FOR SOURCE OUR EQ.	DEMIT DAVMENT TO					_	Sperice chare	D-AIR	Placele	7	Pump Charce	MILEAGE TRK 114	DESCRIPTION
CUSTC	3000	WE OPERATED THE AND PERFORMED JACALCULATIONS SATISFACTORILY?	PERFORMED WITHOUT DELAY?	E UNDERSTOOD AND ET YOUR NEEDS?	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	SURVEY												
CUSTOMER DID NOT WISH TO RESPOND	NE 100 SALISTICO WITH OUR SERVICES	RE OPERATED THE EQUIPMENT AND PERFORMED JOB ALCULATIONS ATTISFACTORILY?	OUT DELAY?	ş	ERFORMED WN?	Y		_	_		11/00	125/56	201	50 13	12575£		70 m.	QTY.
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3534 10		127 26			1046	7007 50					25000	187 0	70		1875120	8000	100 8	AMOUNT

SWIFT OPERATOR

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES - THE

Thank You!

SWIFT Services, Inc.

1 1.	TICKET	NO	200
	0419	M42 11	PAGENO.
		- ; <del>-</del>	•

USTOMER AVLI	can Uters	or	WELL NO.	)		LEASE Pal	olo	DOBTOPE COMPULES TICKET NO. 20556
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUM		PRESSUR	E (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
·						annus		125 sts SMD w/ 4 # floalc
,								55.88
				<u></u>				
	/330	<u>.</u>						on 10c TRK114
		•						
-							200	Pressine up 5 + +0 500 ps:
			1		_			Close in 52 casing
<u>. ·</u>	1350	21	3	-				injection Rate Open annulus (52' 82)
	eria a	34	<del>1</del>			100		Pressure up 5 to 500 ps:  Close in 52 casing  injection Rate down annulus (52.82)  3 bbi @ 100 psi  mix comat 5 mD u 4 looke @ 12.42pg
	1400	34 <u>34</u>	10			200		MIX COMMITS SINCE 47 NESS E 12. 177
			10			700		
	1420	3/2	49	٠.		350		Kick out 125sts mixed
** .		· · · · · · · · · · · · · · · · · · ·						2 min - 50 psi on annular
	1425					50		2 min - 50 psi on annulus Shit in annulus
, \ ,		:					0	Religion pressur on cosings
					,			Replace Burlet On Pipe
				<del></del>				
								unsh touck
	1440	<del> </del>				P		annulus on VACUUM
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	,		-	<del> </del>	-			Then 16
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#### DRILL STEM TEST REPORT

American Warrior, Inc.

Pablo #4-30

P.O. Box 399

30/18S/21W-Ness

Garden City, Ks 67846

Job Ticket: 42780 DST#: 1

ATTN: Jason Alm

Test Start: 2011.03.22 @ 15:42:56

#### **GENERAL INFORMATION:**

Formation: Cherokee 'A' Sand

Deviated: Whipstock: Test Type: Conventional Bottom Hole ft (KB)

Time Tool Opened: 17:42:56 Tester: Dustin Rash 47

Time Test Ended: 20:41:26 Unit No:

Interval: 4155.00 ft (KB) To 4180.00 ft (KB) (TVD) Reference Elevations: 2141.00 ft (KB)

Total Depth: 4180.00 ft (KB) (TVD) 2135.00 ft (CF)

7.88 inches Hole Condition: Poor KB to GR/CF: Hole Diameter: 6.00 ft

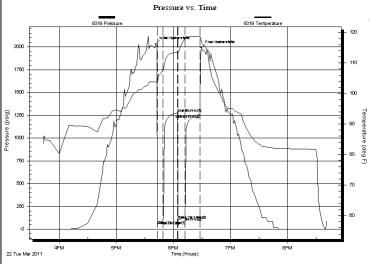
Serial #: 8319 Inside

Press@RunDepth: 4156.00 ft (KB) 131.98 psig @ Capacity: 8000.00 psig

Start Date: 2011.03.22 End Date: 2011.03.22 Last Calib.: 2011.03.22 Start Time: 15:43:01 End Time: 20:41:25 Time On Btm: 2011.03.22 @ 17:41:26 2011.03.22 @ 18:29:26 Time Off Btm:

TEST COMMENT: IF-Strong building blow . B.O.B. in 3 minutes 10 seconds.

ISI-Return @ 10 seconds. Built to 2 inches. FF-Strong building blow . B.O.B. in 3 minutes. FSI-Return @ 20 seconds. Built to 5 inches.



		PI	RESSUR	RE SUMMARY
i	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2032.08	103.88	Initial Hydro-static
	2	46.40	104.00	Open To Flow (1)
	8	90.95	107.65	Shut-In(1)
Ţ	23	1275.81	113.55	End Shut-In(1)
Temperature (deg F)	24	104.35	113.23	Open To Flow (2)
rature	31	131.98	117.96	Shut-In(2)
(deq	47	1258.65	118.77	End Shut-In(2)
ŋ	48	1992.62	116.85	Final Hydro-static

DDECCLIDE CLIMMADY

#### Recovery

Length (ft)	Description	Volume (bbl)
15.00	80%Water/10%Oil/10%Mud	0.07
171.00	50%Gas/45%Oil/5%Water	1.43
126.00	80%Oil/10%Mud/10%Gas	1.77
0.00	186' G.I.P.	0.00

Gas Rat	tes	
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Trilobite Testing, Inc. Ref. No: 42780 Printed: 2011.03.23 @ 09:07:46 Page 1



# DRILL STEM TEST REPORT

**FLUID SUMMARY** 

DST#: 1

American Warrior, Inc.

P.O. Box 399

30/18S/21W-Ness Garden City, Ks 67846 Job Ticket: 42780

ATTN: Jason Alm Test Start: 2011.03.22 @ 15:42:56

Pablo #4-30

**Mud and Cushion Information** 

Mud Type: Gel Chem Cushion Type: Oil API: 36 deg API

Mud Weight: Cushion Length: 9.00 lb/gal Water Salinity: 48000 ppm ft

Viscosity: 51.00 sec/qt Cushion Volume: bbl

Water Loss: 9.17 in<sup>3</sup>Gas Cushion Type:

Resistivity: 0.20 ohm.m Gas Cushion Pressure: psig

Salinity: 8200.00 ppm Filter Cake: inches

#### **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl
15.00	80%Water/10%Oil/10%Mud	0.074
171.00	50%Gas/45%Oil/5%Water	1.433
126.00	80%Oil/10%Mud/10%Gas	1.767
0.00	186' G.I.P.	0.000

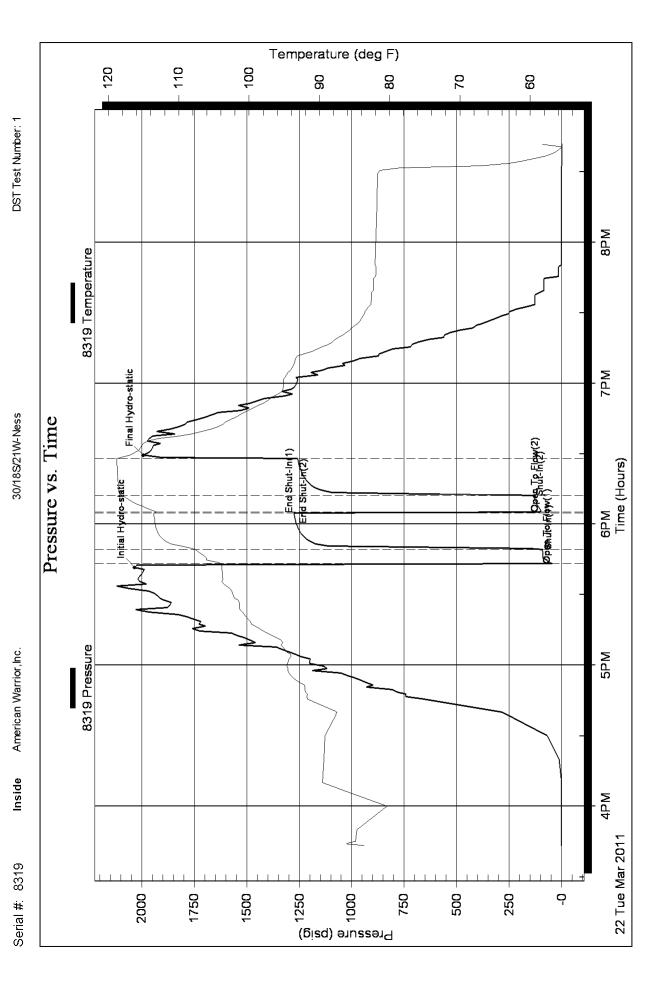
Total Length: 312.00 ft Total Volume: 3.274 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 42780 Printed: 2011.03.23 @ 09:07:47 Page 2



Page 3 Printed: 2011.03.23 @ 09:07:48 42780 Ref. No:

Trilobite Testing, Inc



#### DRILL STEM TEST REPORT

American Warrior, Inc.

Pablo #4-30

P.O. Box 399

30/18S/21W-Ness

Garden City, Ks 67846

Job Ticket: 42781 **DST#: 2** 

ATTN: Jason Alm Test Start: 2011.03.23 @ 06:27:54

#### **GENERAL INFORMATION:**

Formation: Mississippian

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole

Time Tool Opened: 08:42:54 Tester: Dustin Rash

Time Test Ended: 13:52:54 Unit No:

Interval: 4237.00 ft (KB) To 4246.00 ft (KB) (TVD) Reference Elevations: 2141.00 ft (KB)

Total Depth: 4246.00 ft (KB) (TVD) 2135.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 6.00 ft

Serial #: 6719 Inside

Press @ RunDepth: 93.32 psig @ 4238.00 ft (KB) Capacity: 8000.00 psig

 Start Date:
 2011.03.23
 End Date:
 2011.03.23
 Last Calib.:
 2011.03.23

 Start Time:
 06:27:59
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 Time On Btm:
 2011.03.23 @ 08:36:54

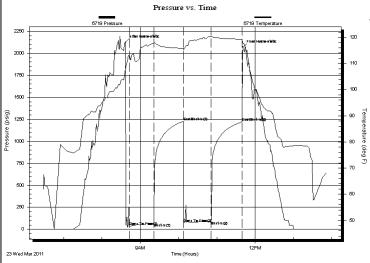
Time Off Btm: 2011.03.23 @ 11:40:54

TEST COMMENT: IF-Weak building blow . Built to 7&1/2 inches.

ISI-No Return.

FF-Weak building blow. Built to 5&1/2 inches.

FSI-No Return.



PRESSURE S	SUMMARY
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Ì	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2122.02	108.47	Initial Hydro-static
	6	34.40	112.94	Open To Flow (1)
	45	69.79	117.75	Shut-In(1)
,	91	1226.79	115.84	End Shut-In(1)
Temperature	91	72.33	115.46	Open To Flow (2)
rature	134	93.32	120.41	Shut-In(2)
i (den F	183	1219.79	119.20	End Shut-In(2)
פ	184	2068.26	117.71	Final Hydro-static

#### Recovery

Length (ft)	Description	Volume (bbl)
62.00	50%W/20%O/20%G/10%M	0.30
114.00	40%W/20%O/20%G/20%M	1.06
35.00	70%O/20%W/10%M	0.49
	•	•

#### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Trilobite Testing, Inc Ref. No: 42781 Printed: 2011.03.23 @ 14:28:24 Page 1



# DRILL STEM TEST REPORT

**FLUID SUMMARY** 

American Warrior,Inc.

Pablo #4-30

P.O. Box 399

30/18S/21W-Ness

Garden City, Ks 67846

Job Ticket: 42781 **DST#: 2** 

ATTN: Jason Alm Test Start: 2011.03.23 @ 06:27:54

**Mud and Cushion Information** 

Mud Type: Gel Chem Cushion Type: Oil API: deg API

Mud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity: 30000 ppm

Viscosity: 51.00 sec/qt Cushion Volume: bbl

Water Loss: 9.18 in<sup>3</sup> Gas Cushion Type:

Resistivity: 0.27 ohm.m Gas Cushion Pressure: psig

Salinity: 8200.00 ppm Filter Cake: inches

#### **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl
62.00	50%W/20%O/20%G/10%M	0.305
114.00	40%W/20%O/20%G/20%M	1.062
35.00	70%O/20%W/10%M	0.491

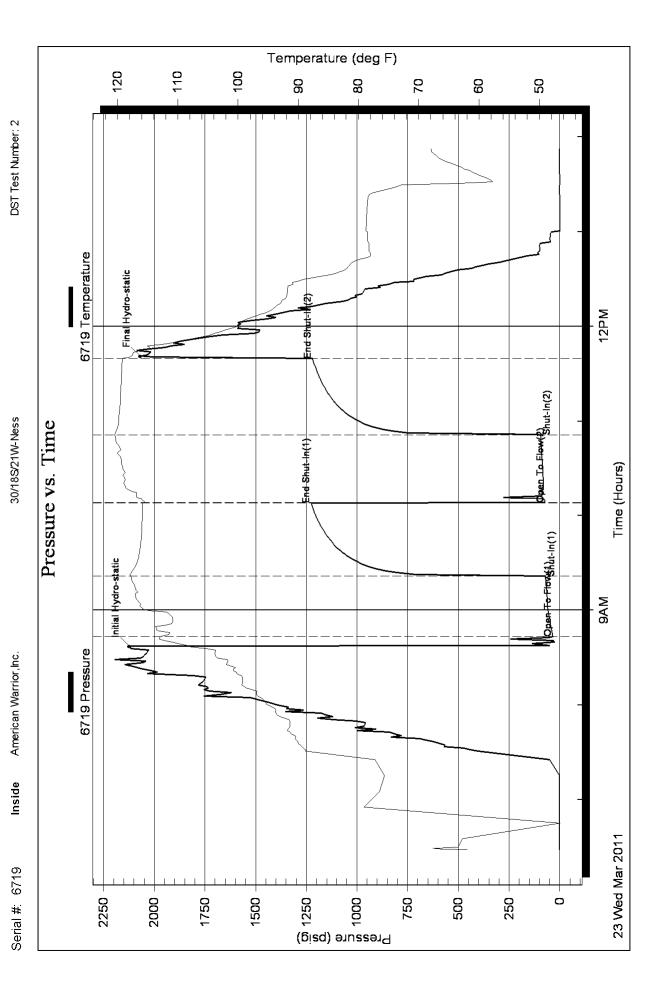
Total Length: 211.00 ft Total Volume: 1.858 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 42781 Printed: 2011.03.23 @ 14:28:25 Page 2



Printed: 2011.03.23 @ 14:28:25 42781 Ref. No: Trilobite Testing, Inc

Page 3

# **Geological Report**

American Warrior, Inc.
Pablo #4-30
1650' FSL & 960' FEL
Sec. 30 T18s R21w
Ness County, Kansas



American Warrior, Inc.

## **General Data**

American	Warrior,	Inc.
	American	American Warrior,

Pablo #4-30

1650' FSL & 960' FEL Sec. 30 T18s R21w Ness County, Kansas API # 15-135-25223-0000

Drilling Contractor: Petromark Drilling, LLc Rig #1

Geologist: Jason Alm

Spud Date: March 17, 2011

Completion Date: March 24, 2011

Elevation: 2135' Ground Level

2141' Kelly Bushing

Directions: Bazine KS, 3/4 mi. East on Hwy 96, North 1/4 mi. on

EE rd. West into location.

Casing: 1398' 8 5/8" surface casing

4249' 5 1/2" production casing

Samples: 10' wet and dry, 3900' to RTD

Drilling Time: 3500' to RTD

Electric Logs: Log-Tech, Inc. "Chris Desaire

Drillstem Tests: Two, Trilobite Testing, Inc. "Dustin Rash"

Problems: Due to oil in system from DST #1 gas detector was

not giving correct readings for Mississippian.

Remarks: Short times were run on DST #1 due to strong

blows.

# **Formation Tops**

	American Warrior, Inc.
	Pablo #4-30
	Sec. 30 T18s R21w
Formation	1650' FSL & 960' FEL
Anhydrite	1392', +749
Base	1428', +713
Heebner	3617', -1476
Lansing	3662', -1521
BKc	3981', -1840
Pawnee	4062', -1921
Fort Scott	4143', -2002
Cherokee	4161', -2120
Mississippian	4226', -2085
Osage	4240', -2099
LTD	4250', -2109
RTD	4250', -2109

# **Sample Zone Descriptions**

# Cherokee "A" Sand (4165', -2024): Covered in DST #1

Ss – Fine to medium grained, sub-rounded, poorly cemented in part, well sorted with fair to good inter-granular porosity, light to fair oil stain in porosity, slight show of free oil when broken, fair yellow cut fluorescents, 28 units hotwire.

# Mississippian Osage (4240', -2099): Covered in DST #2

Dolo  $-\Delta$  – Fine sucrosic crystalline with poor inter-crystalline and vuggy porosity, heavy chert, triptolitic, heavily weathered with fair to good vuggy porosity, light to good oil stain in porosity, show of free oil, fair odor, good yellow cut fluorescents.

#### **Drill Stem Tests**

Trilobite Testing, Inc. "Dustin Rash"

#### DST #1 Cherokee "A" Sand

Interval (4155' – 4180') Anchor Length 25'

IHP − 2032 #

IFP - 5" - B.O.B. 3 min. 46-91 #
ISI - 15" - Built to 2 in. 1276 #
FFP - 5" - B.O.B. 3 min. 104-132 #
FSI - 15" - Built to 5 in. 1258 #

FHP - 1992 # BHT - 118°F

Recovery: 186' GIP

126' MGO 80% Oil

171' WCGO 45% Oil, 5% Water 15' OMCW 10% Oil, 80% Water

#### DST #2 <u>Mississippian Osage</u>

Interval (4237' – 4246') Anchor Length 9'

IHP − 2122 #

 IFP
 - 45" - Built to 7.5 in.
 34-70 #

 ISI
 - 45" - Dead
 1227 #

 FFP
 - 45" - Built to 5.5 in.
 72-93 #

 FSI
 - 45" - Dead
 1218 #

FHP - 2068 # BHT - 120°F

Recovery: 35' MWCO 70% Oil, 20% Water

114' GMOCW 20% Oil, 40% Water 62' GMOCW 20% Oil, 50% Water

# **Structural Comparison**

	American Warrior, Inc.	American Warrior, Inc.		American Warrior, Inc.	
	Pablo #4-30	Pablo #2-30		Pablo #1-30	
	Sec. 30 T18s R21w	Sec. 30 T18s R21w		Sec. 30 T18s R21w	
Formation	1650' FSL & 960' FEL	350' FSL & 800' FEL		335' FSL & 2175' FEL	
Anhydrite	1392', +749	1379', +749	FL	1393', +753	<b>(-4)</b>
Base	1428', +713	1413', +715	<b>(-2)</b>	1427', +719	<b>(-6)</b>
Heebner	3617', -1476	3603', -1475	<b>(-1)</b>	3620', -1474	(-2)
Lansing	3662', -1521	3650', -1522	(+1)	3665', -1519	(-2)
BKc	3981', -1840	3971', -1843	(+3)	3986', -1840	FL
Pawnee	4062', -1921	4046', -1918	(-3)	4066', -1920	<b>(-1)</b>
Fort Scott	4143', -2002	4130', -2002	FL	4145', -1999	(-3)
Cherokee	4161', -2120	4147', -2019	<b>(-1)</b>	4165', -2019	<b>(-1)</b>
Mississippian	4226', -2085	4221', -2093	(+8)	4240', -2094	(+9)
Osage	4240', -2099	4235', -2107	(+8)	4258', -2112	(+13)

# **Summary**

The location for the Pablo #4-30 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Two drill stem tests were conducted both of which recovered commercial amounts of oil from the Cherokee and Mississippian Osage Formations. After all gathered data had examined the decision was made to run 5 ½ in. production casing to further evaluate the Pablo #4-30 well.

## **Recommended Perforations**

**Primary:** 

Cherokee "A" Sand (4165' – 4170') DST #1

**Secondary:** 

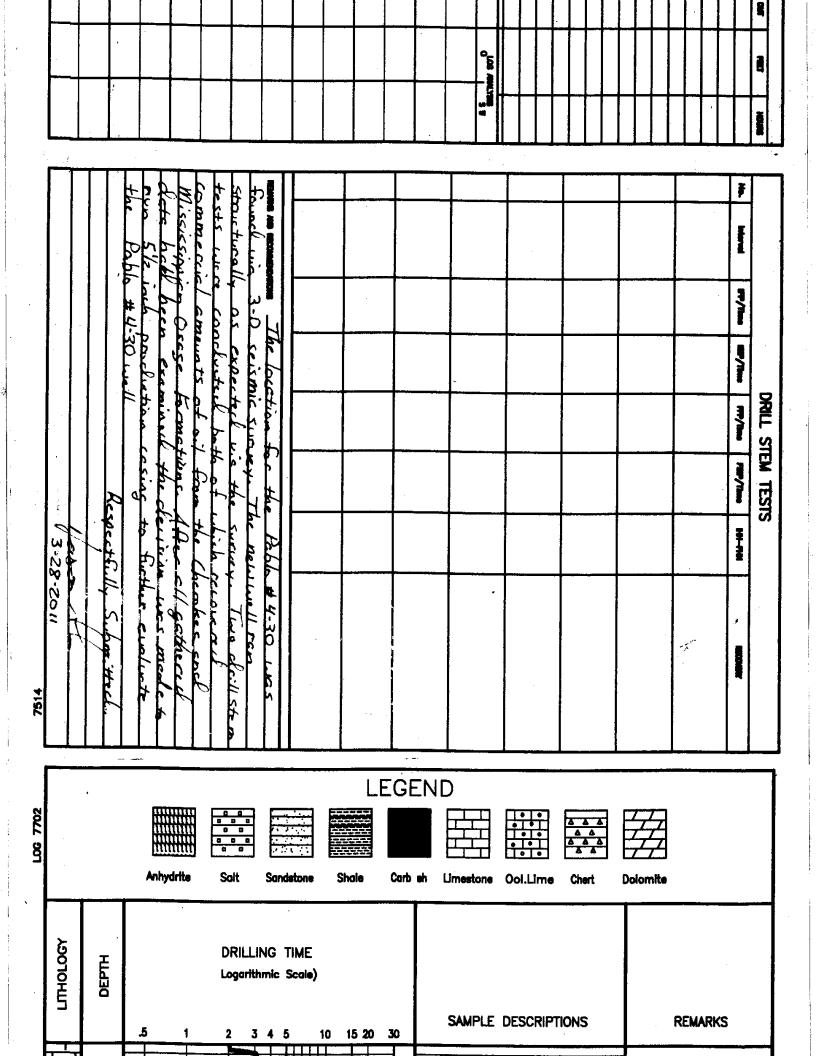
Mississippian Osage (4240' – 4248') DST #2

Respectfully Submitted,

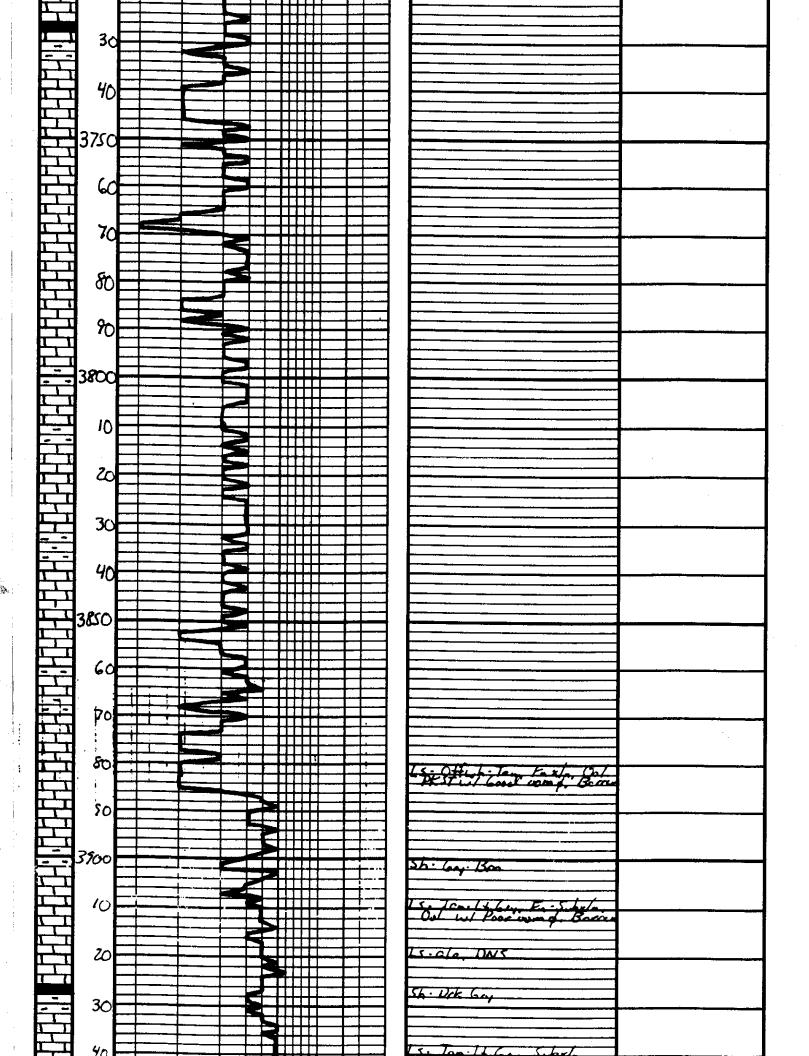
Jason Alm Hard Rock Consulting, Inc.

#### SAMPLES EXAMINED FROM SWAPLES SWED FROM COMM: 3-17-2011 CONTRACTOR Petromack GEOLOGICAL SUPERVISION FROM DRILLING TIME KEPT FROM 100 UP 3400 Approdote FIELD COUNTY Ness repues SEC. 30 LEASE REFERENCE WELL FOR STRUCTURAL COMPARISON Survide LOCATION 1650 EST & 960 EET OPERATOR American 1 - orbansissi FORMATION 4246 Wildest Pable \_ T\P:\_ 352 3500, 10 Б COMP Hard Rock Consulting, Inc. 3500 GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG TYPE NUD Chemica 350' FXL \$ 800' FE 368 57H3 Deilling Jason Alm Petroleum Geologist 185 MIN STATE 3900 Marrior. 3-74-2011 **ಕ** ğ SHZH Hays, KS 67601 - WELL NO. 4-30 1478, 4713 1352, +749 P.O. Box 1260 . 당 Kansas F and RGE Z/L -700 America B Rig # 1 RID Tac APT# 15-135-25223-0000 STRUCT, 7 50 否 PRODUCTION 5/2 1/2 4249 SURFACE 8 /8 10 1398' From Lelly Measurements Are All CNL/COL, DIL, MEL GL 2135 **ELECTRICAL SURVEYS** CASING RECORD 7141 Log Tech ELEVATION T185 R2/4 (000 - J. Sarysing

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